

To be sown over restored worked areas at a rate of 3g/m2

Acid Grassland Mix (80% by weight):

| | | |
|------|------------------------------------|--------------------|
| 34 % | <i>Festuca ovina</i> | Sheeps Fescue |
| 20 % | <i>Festuca rubra ssp rubra</i> | Red Fescue |
| 16 % | <i>Festuca rubra ssp commutata</i> | Chewings Fescue |
| 5 % | <i>Agrostis capillaris</i> | Browntop Bent |
| 3 % | <i>Anthoxanthum odoratum</i> | Sweet Vernal Grass |
| 1 % | <i>Deschampsia caespitosa</i> | Tussock Grass |
| 1 % | <i>Deschampsia flexuosa</i> | Wavy Hair Grass |

80 % MIX 1: Pond Margins and Low Lying Areas - Wildflowers Percentage by weight:

| | | |
|-----|------------------------------|---------------------------|
| 2 % | <i>Achillea millefolium</i> | Yarrow |
| 1 % | <i>Galium saxatile</i> | Heath bedstraw |
| 1 % | <i>Galium verum</i> | Lady's bedstraw |
| 1 % | <i>Hypericum perforatum</i> | St John's Wort |
| 1 % | <i>Leucanthemum vulgare</i> | Oxeye daisy |
| 2 % | <i>Lotus pedunculatus</i> | Greater birdsfoot trefoil |
| 1 % | <i>Lychnis flos-cuculi</i> | Ragged Robin |
| 1 % | <i>Plantago lanceolata</i> | Ribwort Plantain |
| 1 % | <i>Potentilla sterilis</i> | Barren Strawberry |
| 1 % | <i>Pulicaria dysenterica</i> | Common Fleabane |
| 1 % | <i>Prunella vulgaris</i> | Selfheal |
| 1 % | <i>Ranunculus acris</i> | Meadow Buttercup |
| 1 % | <i>Ranunculus repens</i> | Creeping Buttercup |
| 1 % | <i>Rumex acetosella</i> | Sheep's sorrel |
| 1 % | <i>Succisa pratensis</i> | Devil's Bit Scabious |
| 1 % | <i>Vicicia cracca</i> | Tufted vetch |
| 2 % | <i>Viola palustris</i> | Marsh Violet |

20 % MIX 2 Footpaths and adjacent drier areas - Wildflowers Percentage by weight:

| | | |
|-----|-------------------------------|--------------------------|
| 1 % | <i>Achillea millefolium</i> | Yarrow |
| 1 % | <i>Campanula rotundiflora</i> | Harebell |
| 1 % | <i>Galium saxatile</i> | Heath bedstraw |
| 1 % | <i>Galium verum</i> | Lady's bedstraw |
| 1 % | <i>Hypericum perforatum</i> | St John's Wort |
| 1 % | <i>Hypochaeris radicata</i> | Cat's ear |
| 2 % | <i>Lotus pedunculatus</i> | Lesser birdsfoot trefoil |
| 1 % | <i>Leonidion autumnalis</i> | Autumn Hawkbit |
| 1 % | <i>Plantago lanceolata</i> | Ribwort Plantain |
| 2 % | <i>Pilosella officinarum</i> | Mouse-Ear Hawkbit |
| 2 % | <i>Potentilla erecta</i> | Tomentil |
| 1 % | <i>Potentilla sterilis</i> | Barren Strawberry |
| 1 % | <i>Prunella vulgaris</i> | Selfheal |
| 1 % | <i>Rumex acetosella</i> | Sheep's sorrel |
| 1 % | <i>Vicicia cracca</i> | Tufted vetch |
| 2 % | <i>Viola riviniana</i> | Dog Violet |

PLANTING SCHEDULE

| TREES | SIZE | NOTES | % Individual Trees | % Tall Wood Edge Shrub Scrub (WS) | % Dry Shrub Scrub (S) |
|--------------------------------------|---------------|-------------------------------------------|--------------------|-----------------------------------|-----------------------|
| <i>Malus sylvestris</i> (Crab Apple) | 0.45-0.6m t/s | All Scrub to be planted at 2.0 - 5.0m c/s | 10 | 5 | 1 |
| <i>Quercus petraea</i> (Sessile Oak) | 1.2-1.5m fthd | | 40 | 30 | 1 |
| <i>Quercus robur</i> (Oak) | 1.2-1.5m fthd | | 50 | 40 | 2 |
| <i>Sorbus aucuparia</i> (Rowan) | 0.45-0.6m t/s | | | | |
| Total Trees | | | 50 | 40 | 2 |
| SHRUBS | | | | | |
| <i>Crataegus monogyna</i> (Hawthorn) | 0.45-0.6m t/s | | 50 | 45 | 25 |
| <i>Crataegus monogyna</i> (Hawthorn) | 1.2-1.5m fthd | Individual trees planted as shown | | | 30 |
| <i>Cytisus scoparius</i> (Broom) | 0.45-0.6m t/s | | | 10 | |
| <i>Salix caprea</i> (Goat Willow) | 0.45-0.6m t/s | | | 10 | |
| <i>Salix cinerea</i> (Sallow) | 0.45-0.6m t/s | | | 10 | |
| <i>Ulex galli</i> (Western Gorse) | 0.45-0.6m t/s | | 50 | 60 | 98 |
| <i>Ulex europaeus</i> (Gorse) | 0.45-0.6m t/s | | 100 | 100 | 100 |
| Total Shrubs | | | 50 | 60 | 98 |
| TOTAL TREES AND SHRUBS | | | 100 | 100 | 100 |

Notes

Programme of Implementation

To be carried out in November-March planting season for bare root stock.

Prior to planting, any areas of compaction to be broken up to a depth of 450mm.

Trees and shrubs to be notched planted.

A proportion of *Betula pendula* (Silver Birch) will be allowed to colonise plantation areas - up to 20% of the plantation area

Maintenance

All planting to be maintained by use of glyphosate to create a 1.0m diameter circle around each tree and shrub until canopies close. This will permit rapid establishment.

All to be protected with "Tubex" tree shelters.

Two maintenance visits will be carried out per year during the aftercare period, one in spring and one in early summer.

Visits will include weed control (including noxious weeds), litter removal and checking and firming up tree shelters.

Any plants dying during the lifespan of the development will be replaced with a size and species to be agreed with the Mineral Planning Authority to maintain a minimum 90% stocking rate.

Any plants loosened by frost or wind will be firmed up and any damaged branches will be removed using a sharp pruning knife.

Tree shelters will be removed from the planting, should plant growth warrant it during the development.

UK BIODIVERSITY ACTION PLAN HABITAT:

Total Area (hectares):

| | |
|------------------------------------------------------|------|
| Ponds | 2.0 |
| Lowland Mixed Deciduous Woodland including Wood Edge | 9.5 |
| Acid Grassland | 4.0 |
| Heathland | 79.0 |
| Lowland Fen / Mire | 7.5 |

Total Area of UK BAP priority habitat created 102 hectares

Revisions B: Planting and seeding schedules amended - July 2015 - aw

A: Planting and seeding schedules amended - March 2015 - aw

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Date JULY 2015 Site RUGELEY

Scale(s) @A1 Project SAND AND GRAVEL EXTRACTION

Chkd Title RESTORATION PLAN

Site Ref. Drawing No. P1 / 1317 / 20 / B

KEY :

| | | | |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | PERMISSION BOUNDARY | | DRY HEATH SHRUB SCRUB - Gorse, Broom; Stabilising steeper slopes, to deter access, to direct permissive path users. Planted as small 10-100m clumps within designated areas to give an overall 50% cover |
| | EXISTING VEGETATION | | WOOD EDGE HEATH SHRUB SCRUB - Rowan, Birch, Hawthorn; Stabilising steeper slopes, to deter access, to direct permissive path users. Planted as medium 100-1000m clumps within designated areas to give an overall 50% cover |
| | PROPOSED CONTOURS m.A.O.D (2.0m INTERVALS) | | NEW INDIVIDUAL OAK OR HAWTHORN Feathered tree to enhance permissive footpath route and provide shade for grazing animals |
| | SHALLOW POND (UP TO 1.5-2.0m) For surface water drainage - periodically dry Marginal vegetation to establish by natural colonisation; If this fails the to be seeded / planted in Year 3 of Aftercare | | LAND RESTORED TO HEATH GRASSLAND To reflect NVC U4: Mix 1 (Wetland Margins) or Mix 2 - along permissive path routes and at access points; proportions of wildflowers included |
| | MIRE AND HEATH SCRUB OVER DRIED SILT (NATURAL COLONISATION) - To succeed to Heathland | | LAND RESTORED TO HEATH OVER BASAL SANDS Mosaic of habitats - Generally Sown with Nurse Grass Seed Mix or Mix 2 OR |
| | MIRE ACROSS LOW LYING QUARRY FLOOR (NATURAL COLONISATION) - Microtopography - Localised Scrapes and Shallows +/- 1.0-1.5m to create additional habitat | | AREA TO BE SPREAD WITH LOCAL HEATH BRASH |
| | EXISTING Public Right of Way | | BARE GROUND - For Invertebrates, Reptiles and Natural Colonisation; Precise locations to be determined as working progresses |
| | PROPOSED PERMISSIVE PATH with Waymarker Post | | EXPOSED SAND FACE RETAINED - Precise locations to be determined as working progresses; Max height 2.0m unless otherwise shown |
| | NEW TIMBER POST AND STOCKPROOF WIRE FENCING WITH KISSING GATE ACCESS FOR PERMISSIVE PATH USERS; Field Gates installed for livestock management | | |